ApplyNamedCmm Documentation

When the ApplyNamedCmm is started without any arguments it shows the following:

```
Usage: ApplyNamedCmm data_file_path final_data_encoding {profile_file_path Rende
ring_intent}
          For final_data_encoding:
            0 - icEncodeValue
            1 - icEncodePercent
            2 - icEncodeFloat
            3 - icEncode8Bit
            4 - icEncode16Bit

          For Rendering_intent:
            0 - Perceptual
            1 - Relative Colorimetric
            2 - Saturation
            3 - Absolute Colorimetric
```

The first argument is the path to a data set file. The files in the folder SampleIcc\Tools\CmdLine\ApplyNamedCmm\DataSetFilesare sample files that can be used with the ApplyNamedCmm tool.

The second argument is the encoding format for the output data type.

A sequence of one or more profiles are then specified. The path to each profile and the desired rendering intent to use are specified for each profile.

The results are printed to the console. To save them to a file redirect the results to file.

Note: The transforms to use (A2B or B2A) are determined by the pixel format defined in the data set file.

The format of a data set file is as follows. The first two lines define the data format and the encoding. Empty lines after the first two lines are acceptable. Semicolons define comments. Each data set file has the following form:

```
'XXXX' ; Data Format
icEncodeYYYY ; Encoding
Pixel_1
Pixel_2
```

Where:
XXXX = 4 character Color Space Signature (same as found in ICC profiles)
YYYY = Encoding of pixel sample values. Valid choices include: Value, Percent, Float, 8Bit, & 16Bit.
Pixel_N = Data defining pixel N. The number of samples and valid ranges are determined by the color space, and the encoding choices.

The following table shows Valid configurations for data set files.

Color Space Signature	Valid Encodings
'Lab '	Value, 8Bit, 16Bit
'XYZ '	Percent, Float, 16Bit
'nmcl'	Value
'RGB ', 'CMYK', 'CLR2' - 'CLRF'	Percent, Float, 8Bit, 16Bit
All other colorspaces	Percent, Float, 8Bit, 16Bit

Note: 8Bit, and 16Bit encodings use formats defined by the ICC specification.

To help understand some common examples of data set files are shown.

```
'CMYK' ; Data Format
icEncodePercent ; Encoding
100.0   0.0   0.0   0.0
  0.0 100.0   0.0   0.0
  0.0   0.0 100.0   0.0
  0.0   0.0   0.0 100.0
```

```
'CMYK' ; Data Format
icEncodeFloat ; Encoding
1.0 0.0 0.0 0.0
0.0 1.0 0.0 0.0
0.0 0.0 1.0 0.0
0.0 0.0 0.0 1.0
```

```
'CMYK' ; Data Format
icEncode8Bit ; Encoding
255.0   0.0   0.0   0.0
  0.0 255.0   0.0   0.0
  0.0   0.0 255.0   0.0
  0.0   0.0   0.0 255.0
```

```
'CMYK' ; Data Format
icEncode16Bit ; Encoding
65535.0     0.0     0.0     0.0
    0.0 65535.0     0.0     0.0
    0.0     0.0 65535.0     0.0
    0.0     0.0     0.0 65535.0
```

```
'Lab ' ; Data Format
icEncodeValue ; Encoding
100.0    0.0    0.0
 50.0   55.0  -12.0
 89.6   -2.1  101.5
```

```
'nmcl' ; Data Format
icEncodeValue ; Encoding
“Color 1 Name”
“Color 2 Name”
“Color 3 Name”
```